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614	1319 0.0304600000019152
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521	1808 0.0531800000019219
451	1809 0.0531800000019219
873	1810 0.0531700000019219
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557	0 0
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511	0 0



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490	1842 0.010070000001916
994	1843 0.010070000001916
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198	1880	0.03702000000	19169
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516	1912	0.08334000000	19166
662	1913	0.08334000000	19166
766	1914	0.08333000000	19166
449	1915	0.08333000000	19166
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564	0 0
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255	1982	0.115080000001904
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959	1984	0.1150700000001904
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720	0	0
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611	0 0
629	0 0



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643	3033 0.0804100000019178
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785	1145	0.0115300000019159
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893	1597 0.146760000001922
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565	1600 0.146750000001922
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509	1810	0.020990000000	19156
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39	1984 0.0356600000019165
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295	906	112
473	207	40
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687	35	395
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420	681	7
782	424	338
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112	671	27
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27	369	442
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377	801	90
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402	953	386
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475	714	970
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783	471	266
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119	878	131
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557	854	394
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521	487	471
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445	33	714
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415	267	629
133	70	513
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476	957	659
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887	898	488
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423	794	71
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266	124	208
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798	642	103
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979	475	352
607	578	835
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426	518	153
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374	790	312
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879	380	342
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641	44	630
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685	259	428
125	332	344
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442	513	823
504	461	886
119	664	935
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409	531	984
526	696	332
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102	53	917
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57	19	644
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858	612	908
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212	214	933
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596	470	151

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819	905	994
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557	579	493
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16	28	318
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855	368	270
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832	301	39
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487	543	937
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63	452	487
341	310	92
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618	271	347
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946	839	944
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213	117	320
125	440	893
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526	938	96
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192	629	127
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503	581	108
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587	456	199
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116	798	941
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745	832	624
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413	643	973
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701	957	451
765	641	308
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74	184	982
722	217	435
773	345	234
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543	340	514
426	72	119
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778	396	587
647	788	467



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993	487	872
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321	359	855
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170	422	501
42	74	297
737	553	179
390	232	348
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716	256	135
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562	866	144
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832	645	606
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908	272	827
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632	401	139
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366	791	319
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436	754	863
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707	920	937
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725	885	671
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912	328	351
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780	807	365

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419	307	872
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169	796	634
211	575	761
220	494	678
590	167	29
652	741	990
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139	190	611
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825	82	952
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925	813	394
152	375	716
907	855	713
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585	825	90
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115	278	705
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745	775	805
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955	806	338
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704	312	865
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365	131	91
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694	190	120
718	769	163
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137	872	573
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317	239	390
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323	472	992
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452	325	901
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422	196	994
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641	879	543
378	779	449
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332	857	255
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548	520	931
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171	557	617
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373	272	105
587	680	981
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927	193	63
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388	395	526
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817	197	854
737	390	143
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374	887	584
506	234	667
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726	322	275
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633	610	952
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547	447	793
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132	894	833
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207	602	649
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384	592	95
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693	154	346
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712	286	413
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504	696	565
314	894	71
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681	112	221
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327	647	296
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393	180	268
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737	672	851
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137	803	358
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316	38	772
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419	853	106
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316	289	596
399	148	607
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708	272	738
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337	87	356
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670	767	505
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101	77	260
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879	47	411
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301	204	33
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278	226	522
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620	54	244
703	171	148
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711	644	430
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737	92	997
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120	527	213
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46	406	823
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223	316	60
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144	777	80
441	897	605
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774	286	46
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170	227	233
218	518	82
487	407	340
984	730	315
909	95	577
144	489	860
979	402	381
205	476	403
75	504	163
733	273	139
2	694	770
165	119	128
980	283	773
268	130	259
724	5	880
950	741	264
902	99	641
690	646	764
538	613	752
831	791	15
567	755	782
849	630	37
546	745	624

97	165	854
735	712	920
770	129	119
171	126	411
900	479	175
146	313	696
7	275	154
377	797	140
759	349	376
478	523	376
491	52	644
288	806	935
435	956	935
492	769	485
281	308	313
252	668	924
608	704	318
989	540	471
471	368	16
362	624	364
545	940	254
744	328	75
415	260	674
888	712	5
762	163	154
670	97	490
828	508	328
453	871	820
59	503	513
174	818	439
567	721	980
219	595	830
232	538	628
239	485	56
898	368	640
961	875	25
965	802	272
174	535	117
683	93	70
82	333	826
563	242	443
236	322	639
26	191	216
325	439	207
863	237	24
921	203	151
828	746	276
136	210	664
815	41	187
511	184	503

408	798	853
450	677	891
614	663	47
2	583	685
457	288	364
713	312	299
94	763	538
567	902	235
198	75	680
427	69	929
453	163	655
714	565	289
355	61	561
781	308	188
105	827	164
592	327	923
301	103	730
536	418	422
613	842	544
266	253	250
212	835	595
766	197	68
678	744	371
723	359	252
739	961	456
351	463	76
72	607	396
758	774	614
200	565	393
234	749	724
746	737	809
959	570	121
594	987	278
744	915	584
200	579	745
479	798	458
967	263	380
469	195	294
502	102	709
629	567	633
323	445	643
648	978	623
91	781	392
983	405	124
446	329	693
813	559	196
870	722	768
936	915	487
345	278	543
163	105	116

60	966	421
646	69	471
589	553	602
123	36	18
714	984	859
904	671	514
602	690	544
514	407	493
513	388	178
157	951	348
728	576	324
924	571	87
351	801	908
223	872	7
595	748	334
751	870	931
276	442	255
677	562	63
573	547	560
576	781	682
941	80	250
902	43	108
342	791	62
420	201	871
607	27	466
538	567	307
160	763	166
895	882	510
94	52	15
909	352	25
528	776	668
227	930	440
405	694	706
227	57	80
870	504	889
32	71	183
245	683	628
901	417	666
164	694	199
741	456	639
94	81	87
685	893	426
851	28	745
27	134	874
602	581	707
734	26	26
622	710	982
480	312	317
45	275	7
3	64	237



```

using System;
using System.Drawing;
using System.Collections;
using System.ComponentModel;
using System.Windows.Forms;
using System.Data;
using System.IO;
namespace maria0426
{
    /// <summary>
    /// Summary description for WinForm.
    /// </summary>
    public class FBuild
    {
        private const string FILE_NAME_WI = "Index3.txt";
        private static FileStream fsOut = new FileStream(FILE_NAME_WI, FileMode.Open,
        FileAccess.Write, FileShare.Read);
        private static StreamWriter sw = new StreamWriter(fsOut);
        ~FBuild()
        {
            if (sw!=null) sw.Close();
            fsOut = null;
            sw = null;
        }
        public void FOpen_WI()
        {
            if (!File.Exists(FILE_NAME_WI))
            {
                Console.WriteLine("{0} does not exist!", FILE_NAME_WI);
            }
        }
        public void FIWriteSeq(string message)
        {
            sw.WriteLine(message);
        }
        int index,range,depth;
        public long[] CData;
        public string ChannellNo;
        private int SegmentNo;
        private double[] avals;
        public FBuild(int i,int d,string cs)
        {
            CData= new long[i];
            index=i;
            depth=d;
            ChannellNo=cs;
            avals = new double[depth];
            int j;
            for (j=0;j<depth;++j)
            {

```

```

    avals[j]=1;
};
FOpen_WI();
}
private long minF()
{
    int j;
    long min=1000000;
    for (j=0;j<index;++j)
    {
        if (CData[j]<min) min=CData[j];
    };
    return min;
}
private long maxF()
{
    int j;
    long max=0;
    for (j=0;j<index;++j)
    {
        if (CData[j]>max) max=CData[j];
    };
    return max;
}
private long nFun(int index,int dummy,int fv)
{
    return((long)Math.Abs((double)CData[dummy]-avals[index]*Math.Pow(fv,(2+index))));
}
private long cFun(int index,int dummy,int fv)
{
    return((long)(avals[index]*Math.Pow(fv,2+index)));
}
private long xFun(int c0,int ci,int cv)
{
    int i,j=0;
    long rr=0;
    for (i=c0;i<ci;++i)
    {
        rr+=nFun(j,i,cv);
        ++j;
    };
    return rr;
}
private long pFun(int p0,int pi,int pv)
{
    int i,j=0;
    long rr=0;
    for (i=p0;i<pi;++i)
    {
        rr+=cFun(j,i,pv);

```

```

    ++j;
};
return rr;
}
public void minFun(int segment,int pass)
{
    int i,j,k,l,t=0,ex=0;
    long min,curr=0;
    string message;
    for (j=0;j<depth;++j)
    {
        avals[j]=1;
    };
    curr=pFun((segment-1)*depth,depth*segment,(int)(maxF()-minF())/index);
    min=xFun((segment-1)*depth,depth*segment,(int)(maxF()-minF())/index);
    while(ex==0)
    {
        if (curr>min)
        {
            for (j=0;j<=depth-1&&ex==0;++j)
            {
                avals[depth-1-j]-=1.0/Math.Pow(10,depth);
                curr=pFun((segment-1)*depth,depth*segment,(int)(maxF()-minF())/index);
                if (curr<min)
                {
                    ++ex;
                    Console.WriteLine("Exiting...");
                };
                if (ex==0) min=xFun((segment-1)*depth,depth*segment,(int)(maxF()-minF())/index);
            }else {++ex;};
        };
        for (l=0;l<depth;++l)
        {
            message=String.Format("{0,3:d}, Pass:{1,3:d} Segment:{2,3:d} Index:{3}",ChannellNo,pass,segment,avals[l]);
            FIWriteSeq(message);
        };
    }
}

public class InOutBuf
{
    private const string FILE_NAME = "Chain1.txt";
    private const string FILE_NAME1 = "Chain2.txt";
    private const string FILE_NAME2 = "B.txt";
    private const string FILE_NAME3 = "C.txt";
    private const string FILE_NAME_W = "D.txt";
    private static FileStream fsIn = new FileStream(FILE_NAME, FileMode.Open,
    FileAccess.Read, FileShare.Read);
    private static FileStream fsIn1 = new FileStream(FILE_NAME1, FileMode.Open,
    FileAccess.Read, FileShare.Read);
    private static FileStream fsIn2 = new FileStream(FILE_NAME2, FileMode.Open,
    FileAccess.Read, FileShare.Read);

```

```

private static FileStream fsIn3 = new FileStream(FILE_NAME3, FileMode.Open,
FileAccess.Read, FileShare.Read);
private static FileStream fsOut = new FileStream(FILE_NAME_W, FileMode.Open,
FileAccess.Write, FileShare.Read);
private static StreamReader sr1 = new StreamReader(fsIn1);
private static StreamReader sr2 = new StreamReader(fsIn2);
private static StreamReader sr3 = new StreamReader(fsIn3);
private static StreamReader sr = new StreamReader(fsIn);
private static StreamWriter sw = new StreamWriter(fsOut);
public void FOpen()
{
    if (!File.Exists(FILE_NAME))
    {
        Console.WriteLine("{0} does not exist!", FILE_NAME);
    }
}
public void FOpen1()
{
    if (!File.Exists(FILE_NAME1))
    {
        Console.WriteLine("{0} does not exist!", FILE_NAME1);
    }
}
public void FOpen2()
{
    if (!File.Exists(FILE_NAME2))
    {
        Console.WriteLine("{0} does not exist!", FILE_NAME2);
    }
}
public void FOpen3()
{
    if (!File.Exists(FILE_NAME3))
    {
        Console.WriteLine("{0} does not exist!", FILE_NAME3);
    }
}
public void FOpen_W()
{
    if (!File.Exists(FILE_NAME_W))
    {
        Console.WriteLine("{0} does not exist!", FILE_NAME_W);
    }
}
public long FBegin_R()
{
    return sr.BaseStream.Seek(0, SeekOrigin.Begin);
}
public string FReadSeq()
{

```

```

while (sr.Peek()>-1)
{
    String input = sr.ReadLine();
    return input;
}
return "Over...";
}
public string FReadSeq1()
{
    while (sr1.Peek()>-1)
    {
        String input = sr1.ReadLine();
        return input;
    }
    return "Over...";
}
public string FReadSeq2()
{
    while (sr2.Peek()>-1)
    {
        String input = sr2.ReadLine();
        return input;
    }
    return "Over...";
}
public string FReadSeq3()
{
    while (sr3.Peek()>-1)
    {
        String input = sr3.ReadLine();
        return input;
    }
    return "Over...";
}
public void FWriteSeq(string message)
{
    sw.WriteLine(message);
}
~InOutBuf()
{
    if (sr!=null) sr.Close();
    if (sw!=null) sw.Close();
    fsIn =null;
    sr = null;
    fsOut =null;
    sw = null;
}
}
public class WinForm : System.Windows.Forms.Form
{

```

```

/// <summary>
/// Required designer variable.
/// </summary>
private System.ComponentModel.Container components = null;
private System.Windows.Forms.Button button1;
private System.Windows.Forms.Button button2;
private System.Windows.Forms.Label label1;
public WinForm()
{
    //
    // Required for Windows Form Designer support
    //
    InitializeComponent();
    //
    // TODO: Add any constructor code after InitializeComponent call
    //
}
/// <summary>
/// Clean up any resources being used.
/// </summary>
protected override void Dispose (bool disposing)
{
    if (disposing)
    {
        if (components != null)
        {
            components.Dispose();
        }
    }
    base.Dispose(disposing);
}
#region Windows Form Designer generated code
/// <summary>
/// Required method for Designer support - do not modify
/// the contents of this method with the code editor.
/// </summary>
private void InitializeComponent()
{
    this.button1 = new System.Windows.Forms.Button();
    this.button2 = new System.Windows.Forms.Button();
    this.label1 = new System.Windows.Forms.Label();
    this.SuspendLayout();
    //
    // button1
    //
    this.button1.Location = new System.Drawing.Point(280, 88);
    this.button1.Name = "button1";
    this.button1.Size = new System.Drawing.Size(80, 24);
    this.button1.TabIndex = 0;
    this.button1.Text = "button1";

```

```

this.button1.Click += new System.EventHandler(this.button1_Click);
//
// button2
//
this.button2.Location = new System.Drawing.Point(376, 88);
this.button2.Name = "button2";
this.button2.Size = new System.Drawing.Size(88, 24);
this.button2.TabIndex = 1;
this.button2.Text = "button2";
this.button2.Click += new System.EventHandler(this.button2_Click);
//
// label1
//
this.label1.Location = new System.Drawing.Point(32, 24);
this.label1.Name = "label1";
this.label1.Size = new System.Drawing.Size(432, 24);
this.label1.TabIndex = 2;
this.label1.Text = "label1";
//
// WinForm
//
this.AutoScaleBaseSize = new System.Drawing.Size(5, 13);
this.ClientSize = new System.Drawing.Size(480, 117);
this.Controls.Add(this.label1);
this.Controls.Add(this.button2);
this.Controls.Add(this.button1);
this.Name = "WinForm";
this.Text = "WinForm";
this.ResumeLayout(false);
}
#endregion
/// <summary>
/// The main entry point for the application.
/// </summary>
[STAThread]
static void Main()
{
    Application.Run(new WinForm());
}
private void button2_Click(object sender, System.EventArgs e)
{
    Application.Exit();
}
private void button1_Click(object sender, System.EventArgs e)
{
    string ns,ns1;
    int
i=0,j,k=0,ex=0,l=0,m=3,index=100,depth=5,sigN=8,p=0,nchannells=3,wi=2,d=0,samples=3,c1=0,c2=0,c=0,cchan=0,s
dcc=0;
    long t=0;

```

```

char[] nc = new char[24];
double tt=0,tt1=0,tt2=0;
double[,] ia;
double[,] sia;
double[] sd;
double sdc;
string message,sn1,sn2,sn3,sn4,sn5;
long[,] dm;
//*****
//Channel len 10000
//Chanell digits 8
wi=5;cchan=1;depth=5;samples=7;sigN=8;nchannells=3;
//*****
if(wi==1)
{
//*****
// Determine regression indexes by samples No
// Input files In
// Output files Index1-N
//*****
InOutBuf FRead =new InOutBuf();
FRead.FOpen();
FBuild xm =new FBuild(index,depth,String.Format("Chanell {0}",cchan));
ns=FRead.FReadSeq();
for (m=cchan;m<=cchan/*nchannells*/;++m)
{
while (ns!="Over...")
{
while (ns!="Over..."&&ex==0)
{
label1.Text=ns+" Chanell "+String.Format("{0}",m);
label1.Refresh();
nc=ns.ToCharArray();k=0;t=0;
if (m==1)
{
for (j=sigN-1;j>0;--j)
{
if (Char.IsDigit(nc[j]))
{
t+=((int)nc[j]-48)*(int)Math.Pow(10,k);
++k;
};
};
}else{
for (j=m*sigN-1;j>(m-1)*sigN-1;--j)
{
if (Char.IsDigit(nc[j]))
{
t+=((int)nc[j]-48)*(int)Math.Pow(10,k);
++k;

```



```

    };
    };
    };
    xm.CData[i]=t;
    ++i;
    if (i==index) {++ex;i=0;++p;};
    ns=FRead.FReadSeq();
};
for (l=1;l<=samples/*index/depth*/;++l){xm.minFun(l,p);}ex=0;
};
if (FRead.FBegin_R()>-1)
{
    ns=FRead.FReadSeq();
    xm.ChannelNo=String.Format("Channel {0}",m);p=0;ex=0;
};
};
xm=null;
label1.Text="End Channels!";
label1.Refresh();
};
if(wi==2)
{
//*****
// Determine sample sd & min sample No sd & corresp. sample
// Input files In
// Output files ...
//*****
InOutBuf FInOut =new InOutBuf();
FInOut.FOpen();
ns=FInOut.FReadSeq();c=0;
ia=new double[samples,depth];
sia=new double[samples,index*index];
sd=new double[samples];
double min=4.0;
while (ns!="Over...")
{
    nc=null;
    nc = new char[ns.Length];
    nc=ns.ToCharArray();
    tt=0;ex=0;d=0;
    for (j=ns.Length-1;j>0&&ex==0;--j)
    {
        if (nc[j]=='.') ++ex;
        ++d;
    };ex=0;--d;
    for (j=ns.Length-1;j>0&&ex==0;--j)
    {
        if (Char.IsDigit(nc[j])||nc[j]=='.')
        {
            if (Char.IsDigit(nc[j])) tt+=((int)nc[j]-48)*(1.0/Math.Pow(10,d));

```

```

        if (nc[j]=='.') ++ex;
        --d;
    };
};
label1.Text=String.Format("{0}",tt);
label1.Refresh();
ia[c1,c]=tt;
++c;ns=FInOut.FReadSeq();
if (c==depth&&ns!="Over...")
{
sia[c1,k]=Math.Pow(ia[c1,0],2)+Math.Pow(ia[c1,1],3)+Math.Pow(ia[c1,2],4)+Math.Pow(ia[c1,3],5)+Math.Pow(ia[c1,4],6
);
    ++c1;if (c1==samples) c1=0;
    c=0;++k;
};
};--k;k/=samples;tt=0;tt1=0;tt2=0;
for (i=0;i<samples;++i)
{
    tt=0;
    for (j=0;j<k;++j)
    {
        tt+=sia[i,j];
    };
    tt/=k;tt=Math.Pow(tt,2);
    tt1=0;
    for (j=0;j<k;++j)
    {
        tt1+=Math.Pow(sia[i,j],2);
    };
    tt2=Math.Sqrt(tt1/k-tt);
    sd[i]=tt2;
    if (min>sd[i]) {min=sd[i];l=i;};
};
label1.Text=String.Format("End Samples! Channell {0} Samples min sd={1} SampleNo {2}",cchan,min,++l);
label1.Refresh();
};
if(wi==3)
{
//*****
// Determine sample segment matching sample sd & sample No
// Input files Index1-N
// Output files Out1-N
//*****
InOutBuf FInOut3 =new InOutBuf();
FInOut3.FOpen();FInOut3.FOpen1();
FInOut3.FOpen_W();
ns=FInOut3.FReadSeq();ns1=FInOut3.FReadSeq1();c=0;
int seg3=0;
//*****
//Ch No 1

```

```

//St Dev
sdc=0.010431867;
//For SampleNo
sdcc=4;
//*****
//Ch No 2
//St Dev
//sdc=0.002262942;
//For SampleNo
//sdcc=5;
//*****
//Ch No 3
//St Dev
//sdc=0.001823546;
//For SampleNo
//sdcc=5;
//*****
while (ns!="Over...")
{
    nc=null;
    nc = new char[ns.Length];
    nc=ns.ToCharArray();
    tt=0;ex=0;d=0;
    for (j=ns.Length-1;j>0&&ex==0;--j)
    {
        if (nc[j]=='.') ++ex;
        ++d;
    };ex=0;--d;
    for (j=ns.Length-1;j>0&&ex==0;--j)
    {
        if (Char.IsDigit(nc[j])||nc[j]=='.')
        {
            if (Char.IsDigit(nc[j])) tt+=((int)nc[j]-48)*(1.0/Math.Pow(10,d));
            if (nc[j]=='.') ++ex;
            --d;
        };
    };++c;
    if (Char.IsDigit(nc[29])&&Char.IsDigit(nc[30])&&Char.IsDigit(nc[31]))
    {
        seg3=(int)((int)(nc[29]-48)*(1.0/Math.Pow(10,2))+
        (int)((int)nc[30]-48)*(1.0/Math.Pow(10,1))+
        (int)((int)nc[31]-48)*(1.0/Math.Pow(10,0)));
    };
    if (Char.IsDigit(nc[30])&&Char.IsDigit(nc[31]))
    {
        seg3=(int)((int)(nc[30]-48)*(1.0/Math.Pow(10,1))+
        (int)((int)nc[31]-48)*(1.0/Math.Pow(10,0)));
    };
    if (Char.IsDigit(nc[31]))
    {
        seg3=(int)((int)((int)nc[31]-48)*(1.0/Math.Pow(10,0)));
    };
}

```

```

if (seg3==sdcc)
{
    message="Error...";
    if (tt<=1.0&&tt>=sdc)
    {
        if (cchan==1) message=ns1.Remove(8,16)+String.Format(" {0,8:d} {1}",c,tt);
        if (cchan==2)
        {
            ns1=ns1.Remove(0,8);
            message=ns1.Remove(8,8)+String.Format(" {0,8:d} {1}",c,tt);
        };
        if (cchan==3)message=ns1.Remove(0,16)+String.Format(" {0,8:d} {1}",c,tt);
        label1.Text=String.Format("{0}",tt);
        label1.Refresh();
        FInOut3.FWriteSeq(message);
    };
}
else{
    message="Error...";
    if (cchan==1) message=ns1.Remove(8,16)+String.Format(" {0,8:d} {1}",0,0.0);
    if (cchan==2)
    {
        ns1=ns1.Remove(0,8);
        message=ns1.Remove(8,8)+String.Format(" {0,8:d} {1}",0,0.0);
    };
    if (cchan==3) message=ns1.Remove(0,16)+String.Format(" {0,8:d} {1}",0,0.0);
    FInOut3.FWriteSeq(message);
};
ns=FInOut3.FReadSeq();
ns1=FInOut3.FReadSeq1();
};
label1.Text=String.Format("End Domains! Channell {0} Values {1}",cchan,c);
label1.Refresh();
};
if(wi==4)
{
    //*****
    // Determine Chain Indexes and function sub domains
    // Input files Out1-N
    // Output files Chain1-N
    //*****
    InOutBuf FInOut4 =new InOutBuf();
    FInOut4.FOpen();
    FInOut4.FOpen_W();
    ns=FInOut4.FReadSeq();ex=0;c=0;
    sn1="Error...";sn2="Error...";sn3="Error...";sn4="Error...";sn5="Error...";
    while (ns!="Over...")
    {
        nc=null;
        nc = new char[ns.Length];
        nc=ns.ToCharArray();

```

```

if (nc[ns.Length-1]!='0')
{
    tt=0;ex=0;d=0;
    for (j=ns.Length-1;j>0&&ex==0;--j)
    {
        if (nc[j]=='.') ++ex;
        ++d;
    };ex=0;--d;
    for (j=ns.Length-1;j>0&&ex==0;--j)
    {
        if (Char.IsDigit(nc[j])||nc[j]=='.')
        {
            if (Char.IsDigit(nc[j])) tt+=((int)nc[j]-48)*(1.0/Math.Pow(10,d));
            if (nc[j]=='.') ++ex;
            --d;
        };
    };++c;
    if (c==1) {sn1=ns.Remove(8,ns.Length-8);};
    if (c==2) {sn2=ns.Remove(8,ns.Length-8);};
    if (c==3) {sn3=ns.Remove(8,ns.Length-8);};
    if (c==4) {sn4=ns.Remove(8,ns.Length-8);};
    if (c==5) {sn5=ns.Remove(8,ns.Length-8);};
    if (c==5)
    {
        c=0;
        if (tt1==0&&tt2==0)
        {
            tt1=tt;
        }
        else
        {
            if (tt2==0)
            {
                tt2=tt;
                message=String.Format("{0}{1}{2}{3}{4} {5}",sn1,sn2,sn3,sn4,sn5,tt1/tt2);
                FInOut4.FWriteSeq(message);
                tt1=tt2;tt2=0;
            };
        };
    };
    ns=FInOut4.FReadSeq();
};
label1.Text=String.Format("End Chains! Channell {0} ",cchan);
label1.Refresh();
};
if(wi==5)
{
    //*****
    // Determine relation direction & strength

```

```

// Input files Chain1-N
// Output files ...
//*****
InOutBuf FRead5 =new InOutBuf();
FRead5.FOpen();
ns=FRead5.FReadSeq();
dm=new long[2,depth*5];
for (i=0;i<depth*5;++i){dm[0,i]=0;dm[1,i]=0;};i=0;
while (ns!="Over..."&&ex==0)
{
    nc=null;
    nc = new char[ns.Length];
    nc=ns.ToCharArray();
    if (nc[ns.Length-1]=='A')
    {
        t=0;k=0;
        for (m=1;m<=depth;++m)
        {
            if (m==1)
            {
                for (j=sigN-1;j>0;--j)
                {
                    if (Char.IsDigit(nc[j]))
                    {
                        t+=((int)nc[j]-48)*(int)Math.Pow(10,k);
                        ++k;
                    };
                };
                dm[0,l*depth+m-1]=t;t=0;k=0;
            }else{
                for (j=m*sigN-1;j>(m-1)*sigN-1;--j)
                {
                    if (Char.IsDigit(nc[j]))
                    {
                        t+=((int)nc[j]-48)*(int)Math.Pow(10,k);
                        ++k;
                    };
                };
                dm[0,l*depth+m-1]=t;t=0;k=0;
            };
        };
        ++l;
    };
    ns=FRead5.FReadSeq();
};
FRead5.FOpen1();
ns=FRead5.FReadSeq1();l=0;
while (ns!="Over..."&&ex==0)
{
    nc=null;

```

```

nc = new char[ns.Length];
nc=ns.ToCharArray();
if (nc[ns.Length-1]=='A')
{
t=0;k=0;
for (m=1;m<=depth;++m)
{
if (m==1)
{
for (j=sigN-1;j>0;--j)
{
if (Char.IsDigit(nc[j]))
{
t+=((int)nc[j]-48)*(int)Math.Pow(10,k);
++k;
};
};
dm[1,l*depth+m-1]=t;t=0;k=0;
}else{
for (j=m*sigN-1;j>(m-1)*sigN-1;--j)
{
if (Char.IsDigit(nc[j]))
{
t+=((int)nc[j]-48)*(int)Math.Pow(10,k);
++k;
};
};
dm[1,l*depth+m-1]=t;t=0;k=0;
};
};
++l;
};
ns=FRead5.FReadSeq();
};ex=0;
for (i=0;i<samples*5&&ex==0;++i){if (dm[0,i]==0&&dm[1,i]==0)++ex;};
long r=0,rm=0,r1=0;
double rr;
for (j=0;j<=i;++j)
{
r+=dm[0,j];
};rm=r/j;
for (j=0;j<=i;++j)
{
r+=(long)Math.Pow(dm[0,j]-dm[1,j],2);
r1+=(long)Math.Pow(dm[0,j]-rm,2);
};rr=(1-((double)r/(double)r1));
if (rr<0)
{
rr=(1-((double)r1/(double)r));
rr=Math.Sqrt(rr);

```

```

message="Type Weak";
if (1>=rr&&1-0.5<=rr) message="Type Strong";
label1.Text=String.Format("Corr coef Channel 2 vs 1 {0} ",rr)+message;
label1.Refresh();
}else{
rr=Math.Sqrt(rr);
message="Type Weak";
if (1>=rr&&1-0.5<=rr) message="Type Strong";
label1.Text=String.Format("Corr coef Channel 1 vs 2 {0} ",rr)+message;
label1.Refresh();
};
};
//*****
//InOutBuf FWrite =new InOutBuf();
//FWrite.FOpen_W();
//int i;
//string message;
//Random rn=new Random();
//for (i=0;i<10000;++i)
//{
// message=String.Format("{0,8:d}{1,8:d}{2,8:d}",1+rn.Next()%1000,1+rn.Next()%1000,1+rn.Next()%1000);
// FWrite.FWriteSeq(message);
//};
//FWrite=null;
//*****
}
}
}

```



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101	790	473	731	103	0.116366583695299
136	937	314	876	313	8.40944498470491
462	399	343	832	463	1.49490538566605
310	728	840	538	513	0.0518999773430914
151	862	194	810	506	21.4538087488603
312	170	449	914	742	0.145108184403079
395	757	719	421	937	1.03922766711382
905	963	981	536	994	0.5687378370922
16	405	569	860	735	2.63806380632284
314	234	333	825	585	2.06122448971937
805	905	221	889	425	1.21823204417964
911	141	980	46	115	0.628836132041418
815	228	478	854	490	0.464497041433892
866	892	677	442	532	4.14723926346767
331	364	177	476	294	1.30780452220351
1	90	974	396	979	0.117591560182623
870	867	997	149	23	9.87214225088823
344	436	164	403	401	0.946314102572344
27	284	416	913	979	0.0279939884745827
169	685	903	522	36	15.1070823440626
850	421	310	791	806	0.292990468639353
388	808	394	252	948	1.53372925230638
467	4	834	186	528	0.840092106950386
582	318	4	963	541	0.802978941965937
476	288	476	6	812	3.97022838475965
365	420	782	969	994	1.96789727111919
549	995	661	117	916	1.07692307691034
954	376	358	813	690	0.389562289601677
996	11	691	160	266	1.90140845059363
693	389	222	350	162	0.118091781973921
908	247	569	660	872	0.773463540146207
625	973	906	61	619	1.88919575782513
905	798	301	622	862	7.76995708043153
616	266	835	175	780	0.182059696852096
249	755	328	91	982	0.818495778976128
493	74	251	477	985	1.26382153248442
746	341	942	328	271	1.32235998288554
239	145	295	35	832	1.19948717947743
172	42	267	435	347	0.359911406434396
950	955	88	594	169	4.26446280967095
714	400	879	657	56	0.343053867979704
284	720	60	940	768	0.28126067970893
261	851	173	806	78	2.37060041405636
115	274	599	94	447	1.07990667833036
775	614	673	968	245	3.3312823832749
231	889	282	733	866	0.277922779240262
525	603	623	429	164	1.52226332372904
182	190	638	206	937	0.67358803987298
710	563	759	90	938	7.72895862960769
397	47	90	219	330	0.334526366052829 A

89	555	450	698	485 0.59548167094024 A
442	504	119	629	409 0.183913452496929 A
796	938	705	431	529 1.79342018932698
832	948	834	570	375 7.57472488418463
794	305	338	345	477 0.21929005138952
98	406	338	856	285 1.87314085736808
873	511	236	141	653 1.45697896747663
228	437	47	935	107 0.858471639618269
337	72	427	171	772 2.09274809152344
235	26	68	492	750 0.116781814137204
5	866	191	229	964 2.35612266327972
588	465	660	503	61 0.827496306598909
924	139	500	485	398 10.3666666650488
729	585	652	900	485 0.0410837219699161
884	570	412	981	508 0.995871728713629
256	745	632	736	309 2.68587268584216
477	532	837	102	319 1.50446827523112
619	633	568	538	64 0.831146323351437
842	62	448	841	540 3.1383061381471
792	263	598	105	263 0.988479262673659
508	374	481	896	530 0.493836525715274
257	360	292	60	401 1.56561757716515
634	390	96	472	357 0.573960463544852
758	814	130	748	928 0.348435366078298
170	215	791	262	89 2.19283854163718
845	261	859	957	235 0.65106815870363
824	168	972	390	26 9.2228303349674
931	91	500	560	910 0.137143469886914
202	771	734	874	602 3.38266231394392
959	148	247	815	865 1.75829081623385
773	795	723	447	304 0.15878481014291
115	139	454	972	617 2.6249335459032

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572	881	846	371	759 0.915341959337547
593	441	90	372	508 16.9592476393179
353	122	519	645	96 0.229002153731337 A
986	614	280	915	800 0.544140625034123 A
275	408	346	315	500 0.486969754631531 A
905	817	383	32	80 1.72022251304408
252	945	426	42	93 0.265577474592939
793	854	424	366	756 12.5212187135923
301	467	847	770	89 0.21628618502003
329	922	354	647	686 2.99014778298312
485	165	769	974	472 0.186092194886834
971	811	805	814	200 0.671591908536851
348	427	897	543	291 1.59534165846555
150	452	751	828	453 0.829299511290816
810	578	176	126	428 2.28442317909453
834	776	645	517	478 0.337671663237353
885	873	475	327	39 7.87349823228424
365	546	634	92	774 0.516234950781724
122	175	250	838	479 1.93164200128363
153	644	88	980	815 2.88414634072951
509	385	919	706	790 0.415891800601809 B
830	155	512	979	180 0.195150115498852 B
443	645	389	334	574 0.886127759102772 B
206	217	410	129	982 7.66069428748534
454	337	641	130	878 1.11069651738655
203	760	447	244	557 0.117750439392058
53	138	837	904	977 8.44004944199637
386	404	744	634	559 0.651893634219752 C
1000	704	713	713	218 0.305138923071813 C
814	264	711	15	352 0.45799549550722 C
264	985	74	220	919 3.86254893408072
179	907	160	524	957 0.365268509711035
211	347	764	614	994 2.06631648056359
450	877	370	806	163 0.829294854351364
884	181	588	917	24 0.0551079503710869
679	293	572	85	199 42.6429942367129
419	792	793	53	699 0.217445742925683
11	564	561	209	427 0.141629886510096
790	980	842	737	865 1.89090909090304
166	686	123	618	264 4.89245351791175
398	238	237	836	316 5.12231559216695
607	298	715	563	613 3.27522935646478
1000	528	531	148	630 0.0696634001231892
709	575	664	126	368 3.59693486551943
288	41	914	652	800 3.69688385122712
148	299	521	451	873 0.0663908219256847
215	490	994	648	501 5.28528826956216
793	21	634	648	198 0.271745002738927 D
196	516	662	766	449 0.444257770323598 D
765	255	243	959	118 0.724167897806012 D

444	807	585	866	10	1.54747175899587
696	128	80	521	928	0.850217242171186
463	2	143	311	720	2.40208733856937
905	856	866	579	22	3.14693171960998
664	839	331	562	453	2.03339191529342
238	913	153	684	119	0.114533011306284
489	940	453	891	927	4.61710037110357
189	663	856	93	95	0.566017885367267
243	764	634	689	315	0.0258095173469346
924	437	819	430	608	6.28455631390131
983	294	883	844	889	13.257918549378
605	49	290	814	566	0.0698869475988863
549	748	107	706	131	18.5197657344679
487	121	219	203	154	0.0497922286346934
225	992	88	899	829	7.32354511414219
31	620	606	379	10	0.351605030997559
707	786	870	475	414	0.867872271102179
214	128	677	665	838	7.19577960001603
434	319	353	820	208	0.455419113777022 E
717	242	117	331	743	0.627891384536144 E
772	527	382	117	489	0.290825777531052 E
557	153	99	901	503	7.77634571546704
815	11	95	799	539	0.0608816062856895
165	643	480	430	276	20.3427230012221
446	995	870	941	14	0.346003898676197
299	531	476	380	168	0.0505883899839344
102	75	331	706	157	40.2141440796259
832	709	643	67	88	0.18818407962133
137	673	562	323	855	0.74547983310613
221	911	922	426	192	20.9011627833055
510	804	222	795	365	0.172980221306903 F
340	740	811	78	899	0.537865128036082 F
487	301	359	452	945	0.251120670144539 F
750	645	695	309	560	25.1537585368793
401	671	196	848	920	0.983202687573594
575	494	167	741	107	0.837711069447561
93	297	372	618	614	1.00093896713598
908	459	813	375	855	0.111728913152564 G
369	611	176	942	113	0.772134467399305 G
519	290	880	89	806	0.536039947897637 G
708	61	18	52	17	7.33673144275103

612	929	206	719	740	2.72347266845629
874	558	265	476	578	0.109725979086273
70	997	667	925	641	2.28698224845433
925	763	346	616	26	0.853339453758998
43	92	291	332	181	0.41263377214823
279	819	468	667	173	3.20747266086766
18	668	639	401	990	3.29859719394745
11	213	165	939	928	0.867072111229782
759	768	155	342	745	2.26574803101855
462	565	943	488	103	0.0537623029083861
663	428	503	230	303	1.92170022367748
591	8	347	232	290	0.778499050038353
43	364	459	585	386	1.24135220124881
289	457	722	955	300	5.33333333246356
465	305	92	548	498	1.76340110878688
418	191	847	828	547	1.27895981074832
87	788	472	727	703	0.660937500101529
699	292	98	684	259	0.763723150412029
173	198	645	968	663	1.55185185165601
492	764	25	850	469	0.0663472171248185
737	795	545	569	432	18.7103448197848
245	884	555	319	553	0.177406199085499 A
234	769	631	521	504	0.474733785111389 A
314	82	443	402	168	0.824816352608334 A
351	103	899	807	516	1.39341344012573
210	265	569	280	395	2.34184471065311
494	301	553	631	838	0.466569414077817
64	18	156	568	131	3.45630252061313
346	471	683	144	64	1.04753521125958
228	104	260	247	675	0.267294117680075
213	466	159	418	785	3.68603642626683
144	678	515	349	158	0.756561679820635
713	258	365	357	701	2.39622641467362
846	205	258	659	92	1.25196850384195
384	943	200	331	659	0.401581027758642
980	275	843	826	819	0.610816030938958
239	85	314	36	648	0.663144412444624
312	163	960	453	222	2.84685505892986
413	466	720	638	216	0.133845778448748
65	484	609	72	113	0.214583060613835
458	293	272	422	788	102.125668397449
277	673	707	825	218	0.590837282904285 B
312	886	765	923	4	0.0806472162283277 B
478	893	100	624	565	0.534855195917482 B
76	236	862	280	84	2.17568569307248
961	400	942	235	666	1.06674047129321
453	849	958	788	700	0.204972769714397
987	981	649	830	491	26.2983802175361
188	816	918	462	962	3.17886178748628
31	55	747	478	509	0.175797999122416

162	529	161	135	719	0.365424791107465
412	849	389	985	302	1.11903370348282
36	295	623	276	913	4.15964343549043
321	820	599	704	382	0.049977724684358
481	827	878	39	695	6.92594670375171
160	563	220	769	844	0.365491080594812
742	321	41	901	899	0.286857042029539
332	574	788	168	929	4.65858336749101
878	947	558	736	453	0.835795259364708
994	801	609	493	540	0.739332881819405
340	944	727	954	173	18.485133015099
517	803	467	474	531	0.102782692644657
837	675	718	158	959	1.0150204081628
311	153	177	577	895	0.207697524589672
790	432	896	125	816	29.9999999943631
993	597	645	101	938	0.248295024032328
871	498	932	457	559	4.70190023668747
519	693	607	270	665	0.165944028411456
160	860	236	180	568	0.692790824694028
295	880	986	570	785	1.14976452118851
119	153	1	481	634	1.38418079094452
231	720	105	765	360	0.306228373711272
618	535	158	155	863	1.29629949106752
599	895	582	92	479	13.6068075089005
79	705	36	673	827	0.0255955778588101
935	473	522	849	979	21.5032299716352
205	443	959	585	810	0.376367614908676
322	801	160	64	16	1.98984034823931
874	771	444	883	606	0.459946595483596
287	366	151	581	868	13.5770392676442
567	989	875	56	917	0.490370370515057 C
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358	1103 0.0297100000019152
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690	1105 0.0297000000019152
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222	1173 0.132280000001908
350	1174 0.132270000001908
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768	0 0
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91	1419 0.0781800000019186
982	1420 0.0781800000019186
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74	1452 0.0618700000019245
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477	1454 0.0618600000019245
985	1455 0.0618600000019245
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832	1525 0.0390000000019175

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326	0 0
882	0 0
27	0 0
933	0 0
998	0 0
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42	1557 0.1083600000001907
267	1558 0.1083600000001907
435	1559 0.1083600000001907
347	1560 0.1083600000001907
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475	0 0
885	0 0
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88	1593 0.0254200000019154
594	1594 0.0254100000019154
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879	1628	0.0740700000019202
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720	1662	0.263360000002039
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940	1664	0.263350000002039
768	1665	0.263350000002039
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163	0	0
131	0	0

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418	0 0
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550	0 0
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173	1698 0.111100000001906
806	1699 0.111100000001906
78	1700 0.111090000001906
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592	0 0
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699	0 0
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819	0 0

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447	1735 0.102870000001909
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318	0 0
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384	0 0
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691	0 0
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515	0 0
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708	0 0
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429	1874 0.0729900000019206
164	1875 0.0729900000019206
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182	1906 0.1083700000001907
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638	1908 0.1083600000001907
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732	0 0
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999	0 0
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38	0 0
185	0 0

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732	0 0
975	0 0
419	0 0
770	0 0
993	0 0
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957	0 0
710	1941 0.0140300000019158
563	1942 0.0140300000019158
759	1943 0.0140200000019158
90	1944 0.0140200000019158
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387	0 0
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421	0 0
160	0 0
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720	0 0
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47	1977 0.0419200000019184
90	1978 0.0419100000019184
219	1979 0.0419100000019184
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698	2049 0.0703800000019217
485	2050 0.0703800000019217
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667	0 0
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973	0 0
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794	2221 0.128470000001904
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338	2223 0.128470000001904
345	2224 0.128470000001904
477	2225 0.128460000001904
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338	2258 0.06858000000019224
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779	0 0
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704	0 0
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1	0 0
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772	0 0
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